

4
Rec'd PCT/PTO 27 AUG 2001

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the **PATENT APPLICATION** of:

Kelly et al.

Application No.: 09/787,602

Filed: Not Yet Known

For: METHOD AND APPARATUS FOR
SHUFFLING AND DESHUFFLING
VIDEO SIGNALS

Group: Not Yet Known

Examiner: Not Yet Known

Our File: MOT-D2191

Date: 08/23/2001

RECEIVED

21 SEP 2001

Legal Staff
International Division

PETITION UNDER 37 C.F.R. § 1.47(A)

This Petition is being filed in order to proceed with the above-referenced application without the signature of joint inventor Charles P. Kelly.

Statement of Last Known Address

Mr. Kelly's last known address is:

2184 Brady Drive
Lewisville, TX 75057

Statement of Facts

The above-captioned U.S. patent application was filed with the U.S. Patent and Trademark Office on March 21, 2001 as a U.S. National Phase of PCT Application No. PCT/US99/21666. The PCT application was in the name of the Assignee, General

Applicant: Kelly et al.
Application No.: 09/787,602

Instrument Corporation, as well as inventor applications Charles P. Kelly and Douglas N. Nelson, since the U.S. was designated. Since the application was filed without a Declaration signed by the inventor applicants, which is required for the United States of America, a Notification of Missing Requirements was mailed on April 24, 2001 requesting that a Declaration signed by the inventors be furnished to the United States Patent and Trademark Office.

Amel TX ← Joint inventor Mr. Charles P. Kelly is no longer employed with General Instrument Corporation. On May 1, 2001, Mr. Kelly was sent a letter via FedEx by the undersigned requesting that Mr. Kelly review and sign a Declaration and Power of Attorney and an Assignment. In this letter, the undersigned advised Mr. Kelly that the aforementioned documents were required to be filed by June 24, 2001. A copy of the May 1, 2001 letter is enclosed as Exhibit A. The undersigned believes that Mr. Kelly received this mailing based on a FedEx Tracking Detail Report, enclosed as Exhibit B. This tracking report indicates that Mr. Kelly signed for the FedEx package on May 7, 2001.

As of May 16, 2001, the undersigned had not received any communication from Mr. Kelly regarding the May 1, 2001 letter. The undersigned on May 16, 2001 sent another letter to Mr. Kelly regarding the consideration for signing the Assignment document to the

Applicant: Kelly et al.
Application No.: 09/787,602

no *intro 17x*
same address used in the May 1, 2001 letter. A copy of this May 16, 2001 letter is enclosed as Exhibit C.

Again, the undersigned did not receive any response from Mr. Kelly. Accordingly, on May 21, 2001, the undersigned phoned Mr. Kelly at the last known phone number. Mr. Kelly was not available, therefore the undersigned left a detailed message regarding the need for Mr. Kelly to sign the documents sent in the May 1, 2001 letter or telephone the undersigned to indicate his refusal. No communication was received from Mr. Kelly in response to the undersigned's May 21, 2001 telephone message.

4/29/01
Accordingly, on June 4, 2001, the undersigned sent another letter, via FedEx, to Mr. Kelly to a new address which was received from FedEx as a forwarding address. This June 4, 2001 letter advised Mr. Kelly to review, sign and return the Declaration, or that he notify the undersigned if he did not intend to sign the Declaration. A copy of this June 4, 2001 letter is enclosed as Exhibit D. The undersigned believes that Mr. Kelly received this mailing based on a FedEx Tracking Detail Report, enclosed as Exhibit E. This tracking report indicates that Mr. Kelly signed a release left by FedEx, and subsequently that the FedEx package was delivered on June 5, 2001.

Again, the undersigned did not receive any response from Mr. Kelly. Accordingly, on June 15, 2001, the undersigned telephoned Mr. Kelly. Mr. Kelly was not available,

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therefore the undersigned left another detailed message regarding the need for Mr. Kelly to sign the documents sent in the May 1, 2001 or June 4, 2001 letter or telephone the undersigned to indicate his refusal. No communication was received from Mr. Kelly in response to the undersigned's June 15, 2001 telephone message.

The undersigned did not receive any communication from Mr. Kelly regarding the May 1, 2001 or June 4, 2001 letters or responding to the undersigned's telephone messages. The undersigned, on June 19, 2001, sent another letter, via U.S. Express Mail with a return receipt requested, to Mr. Kelly at the same address as the June 4, 2001 letter. This June 19, 2001 letter, similar to the previous two (2) letters, requested that he execute the Declaration. The undersigned also enclosed a copy of the letter which provided a space for Mr. Kelly to indicate his refusal to sign. The June 19, 2001 letter also informed Mr. Kelly that the undersigned intended to file a Petition with the U.S. Patent and Trademark Office requesting the acceptance of the present application without his signature. Mr. Kelly was also informed that he could subsequently join in the application. A copy of this June 19, 2001 letter is enclosed as Exhibit F. This June 19, 2001 letter was subsequently returned by the U.S. Postal Service as unclaimed. A copy of the returned Express Mail Envelope showing the Postal Service's stamps is enclosed as Exhibit G.

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On July 2, 2001, the undersigned phoned Mr. Kelly once again, resulting in the undersigned leaving another detailed message regarding the situation and requesting Mr. Kelly to contact the undersigned or return either the signed documents, or indicate his refusal to sign. On the same day, July 2, 2001, the undersigned sent another letter via U.S. Express Mail with return receipt requested to Mr. Kelly at the same address as the June 19, 2001 letter. This July 2, 2001 letter was identical to the June 19, 2001 letter and is enclosed as Exhibit H. This July 2, 2001 letter was again returned by the U.S. Postal Service as unclaimed with a forwarding address written thereon. A copy of the returned Express Mail Envelope showing the Postal Service's stamps is enclosed as Exhibit I.

As of July 12, 2001, the undersigned had still not received any communication from Mr. Kelly regarding any of the correspondence sent previously or any messages left on Mr. Kelly's phone. Therefore, the undersigned on July 12, 2001 sent another letter, via FedEx, to Mr. Kelly at the forwarding address listed on the returned Express Mail Envelopes. This July 12, 2001 letter was identical to the June 19, 2001 and July 2, 2001 letters. A copy of this July 12, 2001 letter is enclosed as Exhibit J. The undersigned believes that Mr. Kelly received this mailing based on a FedEx Tracking Detail Report, enclosed as Exhibit K. This tracking report indicates that Mr. Kelly signed for the FedEx package on July 16, 2001.

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Since no response from Mr. Kelly had been received by the undersigned, two more phone messages were left on Mr. Kelly's answering machine in July requesting Mr. Kelly to phone the undersigned or return the appropriate signed documents.

It should be noted that Mr. Kelly has cooperated in the past. On June 12, 2000, Mr. Kelly signed the Power of Attorney for the parent PCT patent application. Subsequent to the PCT patent application entering the National Phase, Mr. Kelly, on April 3, 2001 signed an Assignment for the corresponding Brazilian case. Mr. Kelly's signing of this Assignment was in response to the undersigned's March 22, 2001 letter requesting his signature. Copies, signed by Mr. Kelly, of the PCT Power of Attorney and the Brazilian Assignment are enclosed as Exhibit L and M, respectively. A copy of the March 22, 2001 letter is also enclosed as Exhibit N.

Mr. Kelly, as of August 23, 2001, has not communicated at all with the undersigned. In view of the above, it is clear that Mr. Kelly is refusing to execute the Declaration and Power of Attorney for the present application.

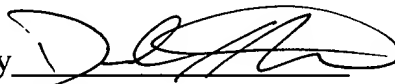
Summary

It is respectfully submitted that Mr. Kelly's above-detailed conduct constitutes a refusal under 37 C.F.R. § 1.47(a). In the alternative, Mr. Kelly's not returning the

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undersigned's phone messages as well as, Mr. Kelly's refusal to acknowledge in any way his receipt of the aforementioned correspondence, constitutes Mr. Kelly not being reached after diligent effort under 37 C.F.R. § 1.47(a). Therefore, it is respectfully requested that the present Petition be granted and the PTO accept the application on behalf of signing joint inventor Mr. Douglas N. Nelson.

Respectfully submitted,

By 
Darryl W. Shorter
Registration No. 47,942
(215) 568-6400

Volpe and Koenig, P.C.
Suite 400, One Penn Center
1617 John F. Kennedy Boulevard
Philadelphia, PA 19103

DWS/lhc
Enclosures



Suite 400, One Penn Center
1617 John F. Kennedy Boulevard
Philadelphia, PA 19103

Telephone: +1-215-568-6400
Facsimile: +1-215-568-6499
www.volpe-koenig.com

BRINGING LAW TO YOUR IDEAS

Darryl W. Shorter
Patent Agent
dws@volpe-koenig.com

May 1, 2001

URGENT ACTION REQUIRED

Charles P. Kelly
401 Kaye
Coppell, TX 75019

VIA FEDEX

Re: *METHOD AND APPARATUS FOR SHUFFLING AND DESHUFFLING
VIDEO SIGNALS*

Dear Mr. Nelson:


As you are aware, Volpe and Koenig has prepared a U.S. patent application for the above-referenced invention. In order for us to complete the filing of this application with the U.S. Patent and Trademark Office, a signed Declaration and Power of Attorney document and a signed and notarized Assignment document must be filed. Therefore, enclosed is Declaration and Power of Attorney document that should be signed and dated in the spaces provided for that purpose. Also enclosed is an Assignment document, including the check for the recited consideration, that should be signed and dated in the appropriate spaces. The Assignment also requires notarization.

Please be advised that these document are required to be filed by June 24, 2001. Please return the original executed documents, in the FedEx envelope provided, by **May 15, 2001** so that we may insure that the documents are filed by the due date.

We look forward to receiving the executed documents. In the interim, if you have any problems, or require additional information, please do not hesitate to get in contact with us.

Very truly yours,

Volpe and Koenig, P.C.

By 
Darryl W. Shorter
Patent Agent

DWS/lhc
Enclosures

cc: Ms. Carol J. Smith (w/o enclosure)

Exhibit A

Please type a plus sign (+) inside this box → ☐

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Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**

☐ Declaration Submitted with Initial Filing **OR** ☒ Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

Attorney Docket Number MOT-D2191

First Named Inventor Kelly et al.

COMPLETE IF KNOWN

Application Number 09/787,602

Filing Date Not Yet Known

Group Art Unit Not Yet Known

Examiner Name Not Yet Known

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**METHOD AND APPARATUS FOR SHUFFLING AND DESHUFFLING VIDEO
SIGNALS**

the specification of which *(Title of the Invention)*

☐ is attached hereto
OR

☒ was filed on (MM/DD/YYYY) 09/20/1999 as United States Application Number or PCT International

Application Number PCT/US99/21666 and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → ☐

PTO/SB/01 (12-97)
Approved for use through 9/30/00. OMB 0651-0032
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION — Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)
PCT/US99/21666	09/20/1999	

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: ☒ Customer Number 24375 → ☐ Registered practitioner(s) name/registration number listed below

Place Customer Number Bar Code Label here

Name	Registration Number	Name	Registration Number
Namely, the Attorneys of Volpe and Koenig, P.C.			

☐ Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.

Direct all correspondence to: ☒ Customer Number 24375 or Bar Code Label ☐ Correspondence address below

Name	VOLPE AND KOENIG, P.C. DEPT MOT				
Address					
Address					
City		State		ZIP	
Country		Telephone		Fax	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor: ☐ A petition has been filed for this unsigned inventor

Given Name (first and middle (if any))		Family Name or Surname	
Charles P.		Kelly	
Inventor's Signature	Date		
Residence: City	Coppell	State	TX
		Country	USA
Post Office Address	401 Kaye		
Post Office Address			
City	Coppell	State	TX
		ZIP	75019
		Country	USA

☒ Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto

ASSIGNMENT

WHEREAS, Charles P. Kelly, residing at 401 Kaye, Coppell, TX 75019, United States of America; and Douglas N. Nelson, residing at 7001 West Parker, Apartment 1617, Plano, TX 75093, United States of America, both citizens of the United States of America (hereafter jointly and severally referred to as the undersigned), are the inventors of METHOD AND APPARATUS FOR SHUFFLING AND DESHUFFLING VIDEO SIGNALS, for which the undersigned have executed an application for United States Letters Patent, U.S. Patent Application No. 09/787,602, which is the U.S. National Phase Application of International Application No. PCT/US99/21666; filed September 20, 1999.

The undersigned hereby authorize assignee or assignee's representative to insert the Application Number and the filing date of this application if they are unknown at the time of execution of this assignment.

AND, WHEREAS, General Instrument Corporation, a Delaware corporation, having its principal place of business at 101 Tournament Drive, Horsham, PA 19044, United States of America (hereafter referred to as the assignee), is desirous of acquiring the entire right, title and interest in said invention, all applications for and all letters patent issued on said invention.

NOW, THEREFORE, in consideration of One Dollar (\$1.00), receipt of which is acknowledged by the undersigned, and of other good and valuable consideration, the

undersigned, intending to be legally bound, do hereby sell, assign and transfer to the assignee and assignee's successors, assigns and legal representatives the entire right, title and interest in said invention and all patent applications thereon, including, but not limited to, the application for United States Letters Patent entitled as above, and all divisions and continuations thereof, and in all letters patent, including all reissues thereof, throughout the world, including the right to claim priority under the Paris Convention.

It is agreed that the undersigned shall be legally bound, upon request of the assignee, to supply all information and evidence relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention throughout the world for the benefit of the assignee, and to execute all instruments proper to carry out the intent of this instrument.

The undersigned warrant that the rights and property herein conveyed are free and clear of any encumbrance.

EXECUTED under seal on this ____ day of _____, 2001

at _____.

Witness:

_____(L.S.)
Charles P. Kelly

State of _____

ss.

County of _____

On this __ day of _____, 2001 before me personally appeared Charles P. Kelly,
to me known to be the persons described herein and who executed the foregoing instrument,
and acknowledged that he executed the same knowingly and willingly and for the purposes
therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

Notary Public

My Commission Expires:

EXECUTED under seal on this ____ day of _____, 2001

at _____.

Witness:

Douglas N. Nelson (L.S.)

State of _____

ss.

County of _____

On this __ day of _____, 2001 before me personally appeared Douglas N. Nelson, to me known to be the persons described herein and who executed the foregoing instrument, and acknowledged that he executed the same knowingly and willingly and for the purposes therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

Notary Public

My Commission Expires:

FedEx Ship Tracking Detail Report

Recipient:
Tracking #: 791543759880
Reference:
Service Type: PL

Activity	City	St/Prov	Date	Time
Delivered with Exception	PLANO	TX	5/7/01	12:49 PM
Delivered	PLANO	TX	5/7/01	12:49 PM
Package on Van	PLANO	TX	5/7/01	7:11 AM
Left FedEx Sort Facility	LOS ANGELES	CA	5/5/01	7:12 AM
Pkg Status Exception	PLANO	TX	5/4/01	7:18 PM
Left FedEx Sort Facility	FORT WORTH	TX	5/4/01	3:16 PM
Delivery Exception	PLANO	TX	5/4/01	2:34 PM
Package on Van	PLANO	TX	5/4/01	7:58 AM
Arrived at FedEx Destination Location	PLANO	TX	5/4/01	7:08 AM
Left FedEx Sort Facility	FORT WORTH	TX	5/4/01	12:34 AM
Left FedEx Sort Facility	FORT WORTH	TX	5/3/01	11:45 PM
Left FedEx Ramp	DALLAS	TX	5/3/01	11:35 PM
Arrived at FedEx Ramp	DALLAS	TX	5/3/01	9:36 PM

Delivered To: Residential
Signed For By: K.ELLY
Delivery Date: 5/7/01
Delivery Time: 12:49 PM

Status Exception: Release signature on file

Exhibit B

Volpe
and
Koenig
P.C.



Suite 400, One Penn Center
1617 John F. Kennedy Boulevard
Philadelphia, PA 19103

Telephone: +1-215-568-6400
Facsimile: +1-215-568-6499
www.volpe-koenig.com

BRINGING LAW TO YOUR IDEAS

Darryl W. Shorter
Patent Agent
dws@volpe-koenig.com

May 16, 2001

Charles P. Kelly
4905 Colony Blvd N
The Colony, TX 75056

Re: *METHOD AND APPARATUS FOR SHUFFLING AND DESHUFFLING
VIDEO SIGNALS*

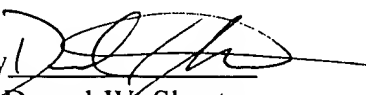
Dear Mr. Kelly:

Upon review of our file, it has come to our attention that we inadvertently omitted the check that was supposed to accompany the Assignment for the recited consideration. Therefore, enclosed is our check in the amount of \$1.00.

If you have any questions or require additional information, please do not hesitate to get in contact with us.

Very truly yours,

Volpe and Koenig, P.C.

By 
Darryl W. Shorter
Patent Agent

DWS/lhc
Enclosure

Exhibit C



Suite 400, One Penn Center
1617 John F. Kennedy Boulevard
Philadelphia, PA 19103

Telephone: +1-215-568-6400
Facsimile: +1-215-568-6499
www.volpe-koenig.com

BRINGING LAW TO YOUR IDEAS

Darryl W. Shorter
Patent Agent
dws@volpe-koenig.com

June 4, 2001

URGENT ACTION REQUIRED

Charles P. Kelly
4905 Colony Blvd N
The Colony, TX 75056

Via FedEx

Re: *METHOD AND APPARATUS FOR SHUFFLING AND DESHUFFLING
VIDEO SIGNALS*

Dear Mr. Kelly:

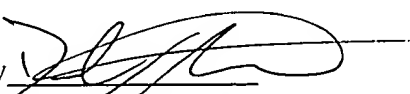
Further to our May 1, 2001 letter regarding the above-identified invention, we have not yet received the signed Declaration and Assignment documents. As you are aware, these document are required to be filed by **June 24, 2001**. We would appreciate your prompt return of the executed documents or notification that you do not intend to return the documents. For your convenience, we have enclosed another copy of the documents to be executed and another return FedEx envelope.

Please return the original executed documents, in the FedEx envelope provided, as soon as possible, so that we may insure that the documents are filed by the due date.

We look forward to receiving the executed documents. In the interim, if you have any problems, or require additional information, please do not hesitate to get in contact with us.

Very truly yours,

Volpe and Koenig, P.C.

By 
Darryl W. Shorter
Patent Agent

DWS/lhc

Exhibit D

Please type a plus sign (+) inside this box → ☐

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Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)	Attorney Docket Number	MOT-D2191
	First Named Inventor	Kelly et al.
	COMPLETE IF KNOWN	
	Application Number	09/787,602
	Filing Date	Not Yet Known
	Group Art Unit	Not Yet Known
<input type="checkbox"/> Declaration Submitted with Initial Filing	OR	<input checked="" type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)
Examiner Name		Not Yet Known

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHOD AND APPARATUS FOR SHUFFLING AND DESHUFFLING VIDEO SIGNALS

the specification of which *(Title of the Invention)*

☐ is attached hereto

OR

☒ was filed on (MM/DD/YYYY) **09/20/1999** as United States Application Number or PCT International Application Number **PCT/US99/21666** and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)

☐ Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box →



PTO/SB/01 (12-97)

Approved for use through 9/30/00. OMB 0651-0032
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION — Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)
PCT/US99/21666	09/20/1999	

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

☒ Customer Number

24375

OR

☐ Registered practitioner(s) name/registration number listed below

Place Customer
Number Bar Code
Label here

Name	Registration Number	Name	Registration Number
Namely, the Attorneys of Volpe and Koenig, P.C.			

☐ Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.

Direct all correspondence to: ☒ Customer Number
or Bar Code Label

24375

OR ☐ Correspondence address below

Name	VOLPE AND KOENIG, P.C. DEPT MOT				
Address					
Address					
City		State		ZIP	
Country		Telephone		Fax	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle (if any))		Family Name or Surname	
Charles P.		Kelly	
Inventor's Signature			Date
Residence: City	Coppell	State	TX
		Country	USA
Post Office Address	401 Kaye		
Post Office Address			
City	Coppell	State	TX
		ZIP	75019
		Country	USA

☒ Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto

ASSIGNMENT

WHEREAS, Charles P. Kelly, residing at 401 Kaye, Coppell, TX 75019, United States of America; and Douglas N. Nelson, residing at 7001 West Parker, Apartment 1617, Plano, TX 75093, United States of America, both citizens of the United States of America (hereafter jointly and severally referred to as the undersigned), are the inventors of METHOD AND APPARATUS FOR SHUFFLING AND DESHUFFLING VIDEO SIGNALS, for which the undersigned have executed an application for United States Letters Patent, U.S. Patent Application No. 09/787,602, which is the U.S. National Phase Application of International Application No. PCT/US99/21666; filed September 20, 1999.

The undersigned hereby authorize assignee or assignee's representative to insert the Application Number and the filing date of this application if they are unknown at the time of execution of this assignment.

AND, WHEREAS, General Instrument Corporation, a Delaware corporation, having its principal place of business at 101 Tournament Drive, Horsham, PA 19044, United States of America (hereafter referred to as the assignee), is desirous of acquiring the entire right, title and interest in said invention, all applications for and all letters patent issued on said invention.

NOW, THEREFORE, in consideration of One Dollar (\$1.00), receipt of which is acknowledged by the undersigned, and of other good and valuable consideration, the

undersigned, intending to be legally bound, do hereby sell, assign and transfer to the assignee and assignee's successors, assigns and legal representatives the entire right, title and interest in said invention and all patent applications thereon, including, but not limited to, the application for United States Letters Patent entitled as above, and all divisions and continuations thereof, and in all letters patent, including all reissues thereof, throughout the world, including the right to claim priority under the Paris Convention.

It is agreed that the undersigned shall be legally bound, upon request of the assignee, to supply all information and evidence relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention throughout the world for the benefit of the assignee, and to execute all instruments proper to carry out the intent of this instrument.

The undersigned warrant that the rights and property herein conveyed are free and clear of any encumbrance.

EXECUTED under seal on this ____ day of _____, 2001

at _____.

Witness:

Charles P. Kelly (L.S.)

State of _____

ss.

County of _____

On this __ day of _____, 2001 before me personally appeared Charles P. Kelly, to me known to be the persons described herein and who executed the foregoing instrument, and acknowledged that he executed the same knowingly and willingly and for the purposes therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

Notary Public

My Commission Expires:

EXECUTED under seal on this ____ day of _____, 2001

at _____.

Witness:

Douglas N. Nelson (L.S.)

State of _____

ss.

County of _____

On this ____ day of _____, 2001 before me personally appeared Douglas N. Nelson, to me known to be the persons described herein and who executed the foregoing instrument, and acknowledged that he executed the same knowingly and willingly and for the purposes therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

Notary Public

My Commission Expires:

FedEx Ship Tracking Detail Report

MOT-02191

Recipient:
Tracking #: 790935702557
Reference:
Service Type: PP

Activity	City	St/Prov	Date	Time
Delivered with Exception	PLANO	TX	6/5/01	10:02 AM
Delivered	PLANO	TX	6/5/01	10:02 AM
Package on Van	PLANO	TX	6/5/01	8:12 AM
Arrived at FedEx Destination Location	PLANO	TX	6/5/01	6:46 AM
Left FedEx Ramp	DALLAS	TX	6/5/01	5:54 AM
Left FedEx Sort Facility	MEMPHIS	TN	6/5/01	2:30 AM
Left FedEx Sort Facility	MEMPHIS	TN	6/5/01	2:24 AM
Left FedEx Sort Facility	MEMPHIS	TN	6/5/01	12:57 AM
Left FedEx Sort Facility	MEMPHIS	TN	6/5/01	12:47 AM
Arrived at FedEx Ramp	PHILADELPHIA	PA	6/4/01	9:16 PM
Left FedEx Origin Location	PHILADELPHIA	PA	6/4/01	8:08 PM
Pickup Exception	PHILADELPHIA	PA	6/4/01	5:38 PM

Delivered To: Residential
Signed For By: 13755531
Delivery Date: 6/5/01
Delivery Time: 10:02 AM

Status Exception: Release signature on file

Exhibit E



Suite 400, One Penn Center
1617 John F. Kennedy Boulevard
Philadelphia, PA 19103

Telephone: +1-215-568-6400
Facsimile: +1-215-568-6499
www.volpe-koenig.com

BRINGING LAW TO YOUR IDEAS

Darryl W. Shorter
Patent Agent
dws@volpe-koenig.com

June 19, 2001

URGENT ACTION REQUIRED

Mr. Charles P. Kelly
4905 Colony Blvd N
The Colony, TX 75056

VIA EXPRESS MAIL
RETURN RECEIPT REQUESTED
EL719434379US

Re: *METHOD AND APPARATUS FOR SHUFFLING AND DESHUFFLING
VIDEO SIGNALS*

Dear Mr. Kelly:

Further to our June 4, 2001 letter regarding the above-identified invention, we have not yet received the signed Declaration and Assignment documents. As you are aware, these documents are required to be filed by **June 24, 2001**. We would appreciate your prompt return of the executed documents or notification that you do not intend to return the documents. For your convenience, we have enclosed another copy of the documents to be executed and another return FedEx envelope.

Please return the original executed documents, in the FedEx envelope provided, as soon as possible, so that we may insure that the documents are filed by the due date.

We look forward to receiving the executed documents. However, if you refuse to sign the Assignment and Declaration documents that are provided herein, please sign and date the copy of this letter which is enclosed herewith as evidence of your refusal. Once you have signed the copy of this letter please return it in the FedEx envelope provided. Please note that upon your refusal to sign, we will file a Petition with the U.S. Patent and Trademark Office requesting them to accept the present application without your signature. You may subsequently join in the application by filing the aforementioned documents.

Exhibit F



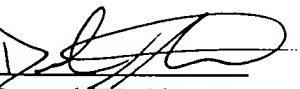
Mr. Charles P. Kelly
Page 2

June 19, 2001
MOT-D2191

If you have any questions or require additional information, please do not hesitate to get in contact with us.

Very truly yours,

Volpe and Koenig, P.C.

By 
Darryl W. Shorter
Patent Agent

DWS/lhc
Enclosures

cc: Paul F. Bawel, Esquire (w/ enclosures)

ASSIGNMENT

WHEREAS, Charles P. Kelly, residing at 401 Kaye, Coppell, TX 75019, United States of America; and Douglas N. Nelson, residing at 7001 West Parker, Apartment 1617, Plano, TX 75093, United States of America, both citizens of the United States of America (hereafter jointly and severally referred to as the undersigned), are the inventors of METHOD AND APPARATUS FOR SHUFFLING AND DESHUFFLING VIDEO SIGNALS, for which the undersigned have executed an application for United States Letters Patent, U.S. Patent Application No. 09/787,602, which is the U.S. National Phase Application of International Application No. PCT/US99/21666; filed September 20, 1999.

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NOW, THEREFORE, in consideration of One Dollar (\$1.00), receipt of which is acknowledged by the undersigned, and of other good and valuable consideration, the

undersigned, intending to be legally bound, do hereby sell, assign and transfer to the assignee and assignee's successors, assigns and legal representatives the entire right, title and interest in said invention and all patent applications thereon, including, but not limited to, the application for United States Letters Patent entitled as above, and all divisions and continuations thereof, and in all letters patent, including all reissues thereof, throughout the world, including the right to claim priority under the Paris Convention.

It is agreed that the undersigned shall be legally bound, upon request of the assignee, to supply all information and evidence relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention throughout the world for the benefit of the assignee, and to execute all instruments proper to carry out the intent of this instrument.

The undersigned warrant that the rights and property herein conveyed are free and clear of any encumbrance.

EXECUTED under seal on this _____ day of _____, 2001
at _____.

Witness:

_____(L.S.)
Charles P. Kelly

State of _____

ss.

County of _____

On this __ day of _____, 2001 before me personally appeared Charles P. Kelly,
to me known to be the persons described herein and who executed the foregoing instrument,
and acknowledged that he executed the same knowingly and willingly and for the purposes
therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

Notary Public

My Commission Expires:

EXECUTED under seal on this ____ day of _____, 2001
at _____.

Witness:

Douglas N. Nelson (L.S.)

State of _____

ss.

County of _____

On this ____ day of _____, 2001 before me personally appeared Douglas N. Nelson, to me known to be the persons described herein and who executed the foregoing instrument, and acknowledged that he executed the same knowingly and willingly and for the purposes therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

Notary Public

My Commission Expires:

Please type a plus sign (+) inside this box → ☐

PTO/SB/01 (12-97)
Approved for use through 9/30/00. OMB 0651-0032
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) <input type="checkbox"/> Declaration Submitted with Initial Filing OR <input checked="" type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	Attorney Docket Number	MOT-D2191
	First Named Inventor	Kelly et al.
	COMPLETE IF KNOWN	
	Application Number	09/787,602
	Filing Date	Not Yet Known
	Group Art Unit	Not Yet Known
	Examiner Name	Not Yet Known

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHOD AND APPARATUS FOR SHUFFLING AND DESHUFFLING VIDEO SIGNALS

the specification of which
☐ is attached hereto
OR
☒ was filed on (MM/DD/YYYY) 09/20/1999 as United States Application Number or PCT International Application Number PCT/US99/21666 and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → ☐

PTO/SB/01 (12-97)
Approved for use through 9/30/00. OMB 0651-0032
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION — Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)
PCT/US99/21666	09/20/1999	

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

☒ Customer Number

24375

OR

☐ Registered practitioner(s) name/registration number listed below

Place Customer
Number Bar Code
Label here

Name	Registration Number	Name	Registration Number
Namely, the Attorneys of Volpe and Koenig, P.C.			

☐ Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.

Direct all correspondence to: ☒ Customer Number 24375 OR ☐ Correspondence address below
or Bar Code Label

Name	VOLPE AND KOENIG, P.C. DEPT MOT				
Address					
Address					
City		State		ZIP	
Country		Telephone		Fax	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle (if any))				Family Name or Surname			
Charles P.				Kelly			
Inventor's Signature						Date	
Residence: City	Coppell	State	TX	Country	USA	Citizenship	USA
Post Office Address	401 Kaye						
Post Office Address							
City	Coppell	State	TX	ZIP	75019	Country	USA

☒ Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto



Suite 400, One Penn Center
1617 John F. Kennedy Boulevard
Philadelphia, PA 19103

Telephone: +1-215-568-6400
Facsimile: +1-215-568-6499
www.volpe-koenig.com

BRINGING LAW TO YOUR IDEAS

Darryl W. Shorter
Patent Agent
dws@volpe-koenig.com

June 19, 2001

URGENT ACTION REQUIRED

Mr. Charles P. Kelly
4905 Colony Blvd N
The Colony, TX 75056

VIA EXPRESS MAIL
RETURN RECEIPT REQUESTED
EL719434379US

Re: *METHOD AND APPARATUS FOR SHUFFLING AND DESHUFFLING
VIDEO SIGNALS*

Dear Mr. Kelly:

Further to our June 4, 2001 letter regarding the above-identified invention, we have not yet received the signed Declaration and Assignment documents. As you are aware, these documents are required to be filed by **June 24, 2001**. We would appreciate your prompt return of the executed documents or notification that you do not intend to return the documents. For your convenience, we have enclosed another copy of the documents to be executed and another return FedEx envelope.

Please return the original executed documents, in the FedEx envelope provided, as soon as possible, so that we may insure that the documents are filed by the due date.

We look forward to receiving the executed documents. However, if you refuse to sign the Assignment and Declaration documents that are provided herein, please sign and date the copy of this letter which is enclosed herewith as evidence of your refusal. Once you have signed the copy of this letter please return it in the FedEx envelope provided. Please note that upon your refusal to sign, we will file a Petition with the U.S. Patent and Trademark Office requesting them to accept the present application without your signature. You may subsequently join in the application by filing the aforementioned documents.



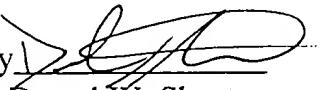
Mr. Charles P. Kelly
Page 2

June 19, 2001
MOT-D2191

If you have any questions or require additional information, please do not hesitate to get in contact with us.

Very truly yours,

Volpe and Koenig, P.C.

By 
Darryl W. Shorter
Patent Agent

DWS/lhc
Enclosures

cc: Paul F. Bawel, Esquire (w/ enclosures)

I hereby refuse to sign the Assignment or Declaration for U.S. Patent Application No. 09/787,602.

Charles P. Kelly

Date



Suite 400, One Penn Center
1617 John F. Kennedy Boulevard
Philadelphia, PA 19103

Telephone: +1-215-568-6400
Facsimile: +1-215-568-6499
www.volpe-koenig.com

BRINGING LAW TO YOUR IDEAS

Darryl W. Shorter
Patent Agent
dws@volpe-koenig.com

July 2, 2001

URGENT ACTION REQUIRED

Mr. Charles P. Kelly
4905 Colony Blvd N
The Colony, TX 75056

VIA EXPRESS MAIL
RETURN RECEIPT REQUESTED
EL919949128US

Re: *METHOD AND APPARATUS FOR SHUFFLING AND DESHUFFLING
VIDEO SIGNALS*

Dear Mr. Kelly:

Further to our June 4, 2001 letter regarding the above-identified invention, we have not yet received the signed Declaration and Assignment documents. As you are aware, these documents are required to be filed by **June 24, 2001**. We would appreciate your prompt return of the executed documents or notification that you do not intend to return the documents. For your convenience, we have enclosed another copy of the documents to be executed and another return FedEx envelope.

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Exhibit H




Mr. Charles P. Kelly
Page 2

July 2, 2001
MOT-D2191

If you have any questions or require additional information, please do not hesitate to get in contact with us.

Very truly yours,

Volpe and Koenig, P.C.

By: 
Darryl W. Shorter
Patent Agent

DWS/lma
Enclosures

cc: Paul F. Bawel, Esquire (w/ enclosures)

ASSIGNMENT

WHEREAS, Charles P. Kelly, residing at 4905 Colony Blvd N, The Colony, TX 75056, United States of America; and Douglas N. Nelson, residing at 7001 West Parker, Apartment 1617, Plano, TX 75093, United States of America, both citizens of the United States of America (hereafter jointly and severally referred to as the undersigned), are the inventors of METHOD AND APPARATUS FOR SHUFFLING AND DESHUFFLING VIDEO SIGNALS, for which the undersigned have executed an application for United States Letters Patent, U.S. Patent Application No. 09/787,602, which is the U.S. National Phase Application of International Application No. PCT/US99/21666; filed September 20, 1999.

The undersigned hereby authorize assignee or assignee's representative to insert the / Application Number and the filing date of this application if they are unknown at the time of execution of this assignment.

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It is agreed that the undersigned shall be legally bound, upon request of the assignee, to supply all information and evidence relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention throughout the world for the benefit of the assignee, and to execute all instruments proper to carry out the intent of this instrument.

The undersigned warrant that the rights and property herein conveyed are free and clear of any encumbrance.

EXECUTED under seal on this ____ day of _____, 2001

at _____.

Witness:

Charles P. Kelly (L.S.)

State of _____

ss.

County of _____

On this __ day of _____, 2001 before me personally appeared Charles P. Kelly, to me known to be the persons described herein and who executed the foregoing instrument, and acknowledged that he executed the same knowingly and willingly and for the purposes therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

Notary Public

My Commission Expires:

EXECUTED under seal on this ____ day of _____, 2001

at _____.

Witness:

Douglas N. Nelson (L.S.)

State of _____

ss.

County of _____

On this ____ day of _____, 2001 before me personally appeared Douglas N. Nelson, to me known to be the persons described herein and who executed the foregoing instrument, and acknowledged that he executed the same knowingly and willingly and for the purposes therein contained.

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Notary Public

My Commission Expires:

Please type a plus sign (+) inside this box → ☐

PTO/SB/01 (12-97)
Approved for use through 9/30/00. OMB 0651-0032
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) <input type="checkbox"/> Declaration Submitted with Initial Filing OR <input checked="" type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	Attorney Docket Number	MOT-D2191
	First Named Inventor	Kelly et al.
	COMPLETE IF KNOWN	
	Application Number	09/787,602
	Filing Date	Not Yet Known
	Group Art Unit	Not Yet Known
	Examiner Name	Not Yet Known

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHOD AND APPARATUS FOR SHUFFLING AND DESHUFFLING VIDEO SIGNALS

the specification of which (Title of the Invention)
☐ is attached hereto
OR
☒ was filed on (MM/DD/YYYY) **09/20/1999** as United States Application Number or PCT International Application Number **PCT/US99/21666** and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)

☐ Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → ☐

PTO/SB/01 (12-97)

Approved for use through 9/30/00. OMB 0651-0032
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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DECLARATION — Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)
PCT/US99/21666	09/20/1999	

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

☒ Customer Number

24375

OR

☐ Registered practitioner(s) name/registration number listed below

Place Customer
Number Bar Code
Label here

Name	Registration Number	Name	Registration Number
Namely, the Attorneys of Volpe and Koenig, P.C.			

☐ Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.

Direct all correspondence to: ☒ Customer Number
or Bar Code Label

24375

OR ☐ Correspondence address below

Name	VOLPE AND KOENIG, P.C. DEPT MOT				
Address					
Address					
City		State		ZIP	
Country		Telephone		Fax	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])		Family Name or Surname	
Charles P.		Kelly	
Inventor's Signature			Date
Residence: City	The Colony	State	TX
		Country	USA
Post Office Address	4905 Colony Blvd. N		
Post Office Address			
City	The Colony	State	TX
		ZIP	75056
		Country	USA

☒ Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto



Suite 400, One Penn Center
1617 John F. Kennedy Boulevard
Philadelphia, PA 19103

Telephone: +1-215-568-6400
Facsimile: +1-215-568-6499
www.volpe-koenig.com

INTELLECTUAL PROPERTY LAW

Gerald B. Halt, Jr.
gbh@volpe-koenig.com

July 12, 2001

URGENT ACTION REQUIRED

Mr. Charles P. Kelly
2184 Brady Drive
Lewisville, TX 75057

Via FedEx

Re: *METHOD AND APPARATUS FOR SHUFFLING AND DESHUFFLING
VIDEO SIGNALS*

Dear Mr. Kelly:

Further to our May 1 and June 4, 2001 letters regarding the above-identified invention, we have not yet received the signed Declaration and Assignment documents. These documents are required to be filed by **July 24, 2001**. We would appreciate your prompt return of the executed documents or notification that you do not intend to return the documents. For your convenience, we have enclosed another copy of the documents to be executed and another return FedEx envelope.

Please return the original executed documents, in the FedEx envelope provided, as soon as possible, so that we may insure that the documents are filed by the due date.

We look forward to receiving the executed documents. However, if you refuse to sign the Assignment and Declaration documents that are provided herein, please sign and date the copy of this letter which is enclosed herewith as evidence of your refusal. Once you have signed the copy of this letter please return it in the FedEx envelope provided. Please note that upon your refusal to sign, we will file a Petition with the U.S. Patent and Trademark Office requesting them to accept the present application without your signature. You may subsequently join in the application by filing the aforementioned documents.

Exhibit J



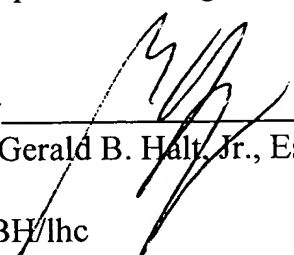
Mr. Charles P. Kelly
Page 2

July 12, 2001
MOT-D2191

If you have any questions or require additional information, please do not hesitate to get in contact with us.

Very truly yours,

Volpe and Koenig, P.C.

By 
Gerald B. Halt, Jr., Esquire

GBH/lhc
Enclosures

cc: Paul F. Bawel, Esquire (w/o enclosures)

Please type a plus sign (+) inside this box → ☐

PTO/SB/01 (12-97)

Approved for use through 9/30/00. OMB 0651-0032
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) <input type="checkbox"/> Declaration Submitted with Initial Filing OR <input checked="" type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	Attorney Docket Number	MOT-D2191
	First Named Inventor	Kelly et al.
	COMPLETE IF KNOWN	
	Application Number	09/787,602
	Filing Date	Not Yet Known
	Group Art Unit	Not Yet Known
	Examiner Name	Not Yet Known

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHOD AND APPARATUS FOR SHUFFLING AND DESHUFFLING VIDEO SIGNALS

the specification of which
☐ is attached hereto
OR
☒ was filed on (MM/DD/YYYY) **09/20/1999** as United States Application Number or PCT International Application Number **PCT/US99/21666** and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)

☐ Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → ☐

PTO/SB/01 (12-97)

Approved for use through 9/30/00. OMB 0651-0032

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION — Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT International application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)
PCT/US99/21666	09/20/1999	

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: ☒ Customer Number 24375 → ☐ Registered practitioner(s) name/registration number listed below

Place Customer Number Bar Code Label here

Name	Registration Number	Name	Registration Number
Namely, the Attorneys of Volpe and Koenig, P.C.			

☐ Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.

Direct all correspondence to: ☒ Customer Number 24375 OR ☐ Correspondence address below

Name	VOLPE AND KOENIG, P.C. DEPT MOT				
Address					
Address					
City		State		ZIP	
Country		Telephone		Fax	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:		<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name (first and middle (if any))		Family Name or Surname			
Charles P.		Kelly			
Inventor's Signature				Date	
Residence: City	The Colony	State	TX	Country	USA
Post Office Address	4905 Colony Blvd. N				
Post Office Address					
City	The Colony	State	TX	ZIP	75056
				Country	USA

☒ Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto

ASSIGNMENT

WHEREAS, Charles P. Kelly, residing at 4905 Colony Blvd N, The Colony, TX 75056, United States of America; and Douglas N. Nelson, residing at 7001 West Parker, Apartment 1617, Plano, TX 75093, United States of America, both citizens of the United States of America (hereafter jointly and severally referred to as the undersigned), are the inventors of METHOD AND APPARATUS FOR SHUFFLING AND DESHUFFLING VIDEO SIGNALS, for which the undersigned have executed an application for United States Letters Patent, U.S. Patent Application No. 09/787,602, which is the U.S. National Phase Application of International Application No. PCT/US99/21666; filed September 20, 1999.

The undersigned hereby authorize assignee or assignee's representative to insert the Application Number and the filing date of this application if they are unknown at the time of execution of this assignment.

AND, WHEREAS, General Instrument Corporation, a Delaware corporation, having its principal place of business at 101 Tournament Drive, Horsham, PA 19044, United States of America (hereafter referred to as the assignee), is desirous of acquiring the entire right, title and interest in said invention, all applications for and all letters patent issued on said invention.

NOW, THEREFORE, in consideration of One Dollar (\$1.00), receipt of which is acknowledged by the undersigned, and of other good and valuable consideration, the

undersigned, intending to be legally bound, do hereby sell, assign and transfer to the assignee and assignee's successors, assigns and legal representatives the entire right, title and interest in said invention and all patent applications thereon, including, but not limited to, the application for United States Letters Patent entitled as above, and all divisions and continuations thereof, and in all letters patent, including all reissues thereof, throughout the world, including the right to claim priority under the Paris Convention.

It is agreed that the undersigned shall be legally bound, upon request of the assignee, to supply all information and evidence relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention throughout the world for the benefit of the assignee, and to execute all instruments proper to carry out the intent of this instrument.

The undersigned warrant that the rights and property herein conveyed are free and clear of any encumbrance.

EXECUTED under seal on this ____ day of _____, 2001
at _____.

Witness:

Charles P. Kelly (L.S.)

State of _____

ss.

County of _____

On this __ day of _____, 2001 before me personally appeared Charles P. Kelly,
to me known to be the persons described herein and who executed the foregoing instrument,
and acknowledged that he executed the same knowingly and willingly and for the purposes
therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

Notary Public

My Commission Expires:

EXECUTED under seal on this ____ day of _____, 2001
at _____.

Witness:

Douglas N. Nelson (L.S.)

State of _____

ss.

County of _____

On this ____ day of _____, 2001 before me personally appeared Douglas N. Nelson, to me known to be the persons described herein and who executed the foregoing instrument, and acknowledged that he executed the same knowingly and willingly and for the purposes therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

Notary Public

My Commission Expires:



Suite 400, One Penn Center
1617 John F. Kennedy Boulevard
Philadelphia, PA 19103

Telephone: +1-215-568-6400
Facsimile: +1-215-568-6499
www.volpe-koenig.com

INTELLECTUAL PROPERTY LAW

Gerald B. Halt, Jr.
gbh@volpe-koenig.com

July 12, 2001

URGENT ACTION REQUIRED

Mr. Charles P. Kelly
2184 Brady Drive
Lewisville, TX 75057

Via FedEx

Re: *METHOD AND APPARATUS FOR SHUFFLING AND DESHUFFLING
VIDEO SIGNALS*

Dear Mr. Kelly:

Further to our May 1 and June 4, 2001 letters regarding the above-identified invention, we have not yet received the signed Declaration and Assignment documents. These documents are required to be filed by **July 24, 2001**. We would appreciate your prompt return of the executed documents or notification that you do not intend to return the documents. For your convenience, we have enclosed another copy of the documents to be executed and another return FedEx envelope.

Please return the original executed documents, in the FedEx envelope provided, as soon as possible, so that we may insure that the documents are filed by the due date.

We look forward to receiving the executed documents. However, if you refuse to sign the Assignment and Declaration documents that are provided herein, please sign and date the copy of this letter which is enclosed herewith as evidence of your refusal. Once you have signed the copy of this letter please return it in the FedEx envelope provided. Please note that upon your refusal to sign, we will file a Petition with the U.S. Patent and Trademark Office requesting them to accept the present application without your signature. You may subsequently join in the application by filing the aforementioned documents.



Mr. Charles P. Kelly
Page 2

July 12, 2001
MOT-D2191

If you have any questions or require additional information, please do not hesitate to get in contact with us.

Very truly yours,

Volpe and Koenig, P.C.

By 
Gerald B. Halt, Jr., Esquire

GBH/lhc
Enclosures

cc: Paul F. Bawel, Esquire (w/o enclosures)

I hereby refuse to sign the Assignment or Declaration for U.S. Patent Application No. 09/787,602.

Charles P. Kelly

Date

FedEx Ship Tracking Detail Report

Recipient:
Tracking #: 790101575042
Reference:
Service Type: PP

Activity	City	St/Prov	Date	Time
Delivered	IRVING	TX	7/16/01	10:56 AM
Package on Van	IRVING	TX	7/16/01	7:44 AM
Pkg Status Exception	IRVING	TX	7/13/01	1:52 PM
Delivery Exception	IRVING	TX	7/13/01	11:01 AM
Delivery Exception	IRVING	TX	7/13/01	10:25 AM
Package on Van	IRVING	TX	7/13/01	8:26 AM
Arrived at FedEx Destination Location	IRVING	TX	7/13/01	6:43 AM
Left FedEx Ramp	DALLAS	TX	7/13/01	5:32 AM
Arrived at FedEx Ramp	DALLAS	TX	7/13/01	4:36 AM
Left FedEx Sort Facility	MEMPHIS	TN	7/13/01	2:14 AM
Left FedEx Sort Facility	MEMPHIS	TN	7/13/01	1:44 AM
Left FedEx Sort Facility	MEMPHIS	TN	7/13/01	12:19 AM
Left FedEx Sort Facility	MEMPHIS	TN	7/12/01	11:30 PM

Delivered To: Receptionist/Front desk
Signed For By: C.KELLY
Delivery Date: 7/16/01
Delivery Time: 10:56 AM

Status Exception: package in FedEx location

Exhibit K

PCT

POWER OF ATTORNEY

(for an international application filed under the Patent Cooperation Treaty)

(PCTRule90.4)

The undersigned applicant(s) (Names should be indicated as they appear in the request):

KELLY, Charles P.
4905 North Colony
The Colony, TX 75056
United States of America

hereby appoints (appoint) the following person as:



agent



common representative

Name and address

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

VOLPE, Anthony S.; KOENIG III, Frederick C.; HALT, Gerald B. Jr.; MASSINA, Glenn M.;
STAPLER, Alfred; GLABICKI, Jeffrey M.; ANASTASI, Salvatore; LU, Kao H; HUIS, Randolph J.

Volpe and Koenig, P.C.
Suite 400, One Penn Center
1617 John F. Kennedy Boulevard
Philadelphia, PA 19103
United States of America

to represent the undersigned before



all the competent International Authorities



the International Searching Authority only



the International Preliminary Examining Authority only

in connection with the international application identified below:

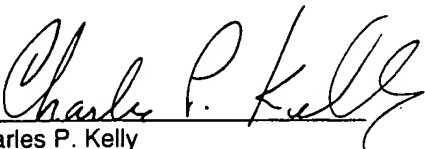
Title of the invention: METHOD AND APPARATUS FOR SHUFFLING
AND DESHUFFLING VIDEO SIGNALS

Applicant's or agent's file reference: GIC-PT078PC

International application number (if already available): PCT/US99/2166

filed with the following Office United States Patent and Trademark Office as receiving Office
and to make or receive payments on behalf of the undersigned.

Signature of the applicant(s) (where there are several applicants, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading the request or this power):


Charles P. Kelly

Date: 6/12/2000

Exhibit L

CESSÃO DOS DIREITOS DE PRIORIDADE
Patente / Desenho Industrial

ASSIGNMENT OF PRIORITY RIGHTS
Patent / Industrial Design

(1) Insert name(s), full qualification and address of the applicants concerning the priority application

Charles P. Kelly
Electrical Engineer
401 Kaye
Coppell, TX 75019
United States of America

(2) Insert the following statement:
applicant(s) of the application(s) filed under SERIAL Nº in on

applicant of the application filed under Serial No. 60/101,233 in United States of America on September 21, 1999

para que ainda não obteve (obtiveram) patente/registro do Governo do Brasil declara(m) pela presente que dá(dão) seu pleno consentimento para que seja concedido em nome de

for which he (they) has (have) not yet obtained a patent/registration from the Government of Brazil, declare(s) that he (they) give(s) (their) full consent for the Brazilian Patent Office to grant in the name of

(3) Insert name(s), full qualifications and address of the physical or legal person(s) in whose name(s) the case must be filed in Brazil.

General Instrument Corporation
101 Tournament Drive
Horsham, PA 19044
United States of America

o título correspondente, já requerido ou a requerer no Brasil reivindicando a prioridade do(s) pedido(s) acima referido(s) de acordo com a Convenção Internacional. A presente declaração ratifica atos praticados antes do depósito deste pedido(s) no Brasil.

the corresponding title, already applied for or to be applied for, claiming priority of the above mentioned application(s) in accordance with the International Convention. This declaration ratifies acts practiced before filing of this (these) case(s) in Brazil.

(4) Insert place and date of execution

Local
e
Data:

4905 N. Colony

The Colony, Tx. 75056

(5) Signature(s)

Ass.:

Charles P. Kelly

Charles P. Kelly 4/3/01

Notarization or legalization are not required



Suite 400, One Penn Center
1617 John F. Kennedy Boulevard
Philadelphia, PA 19103

Telephone: +1-215-568-6400
Facsimile: +1-215-568-6499
www.volpe-koenig.com

INTELLECTUAL PROPERTY LAW

mail@volpe-koenig.com

March 22, 2001

URGENT ACTION REQUIRED

Charles P. Kelly
401 Kaye
Coppell, TX 75019

VIA FEDEX

Re: *METHOD AND APPARATUS FOR SHUFFLING AND DESHUFFLING
VIDEO SIGNALS*

Dear Mr. Kelly:

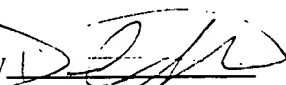
As you may know, Volpe and Koenig has prepared a U.S. patent application for the above-referenced invention. We have also advised our Brazilian associate to file a Brazilian patent application based on the U.S. patent application. In order for our associate to complete the filing of this application with the Brazilian Patent Office, a signed Assignment must be filed. Therefore, enclosed is an Assignment document that requires your signature. In the spaces provided, please sign, date and enter the city and state of the location where this document was signed.

Please be advised that this document is required to be filed by May 15, 2001. Please return the original executed document, in the FedEx envelope provided, by **April 15, 2001** so that we may insure that the Brazilian associate is able to file the Assignment by the due date.

We look forward to receiving the executed document. In the interim, if you have any problems, or require additional information, please do not hesitate to get in contact with us.

Very truly yours,

Volpe and Koenig, P.C.

By 
Darryl W. Shorter
Patent Agent

RECEIVED
AM/PM

APR 04 2001

VOLPE & KOENIG, P.C.

DWS/lhc
Enclosure

cc: Ms. Carol J. Smith (w/o enclosure)

Exhibit N

Patents

Trademarks

Copyrights

Trade Secrets

Litigation

Licensing